

**Notice of Allowability**

Application No.

10/773,285

Applicant(s)

KIM, JUN-WON

Examiner

Minh H. Chau

Art Unit

2854

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the application filed 09 February 2004.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☒ The drawings filed on 09 February 2004 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
**MINH CHAU**  
**PRIMARY EXAMINER**

## REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

**Claims 1-5** have been indicated for allowance because the prior art fails to teach the entire combination of a method for judging a paper jam in an image forming apparatus including the steps of (c) calculating a value T<sub>1</sub> for a fuse lamp drive unit to be in an ON state; (d) comparing the value T<sub>1</sub> with a reference value T<sub>2</sub>; and (e) judging a paper jam and aborting a printing operation if the value T<sub>1</sub> is out of an error range of the value T<sub>2</sub> in the comparison of the step (d).

**Claims 6-12** have been indicated for allowance because the prior art fails to teach the entire combination of a method for judging a paper jam in an image forming apparatus including the steps of (d) calculating a value T<sub>1</sub> for a fuse lamp drive unit to be in an ON state; (e) comparing the value T<sub>1</sub> with a reference value T<sub>2</sub>; and (f) judging a paper jam and aborting a printing operation if the value T<sub>1</sub> is out of an error range of the value T<sub>2</sub> in the comparison of the step (e).

**Claims 13-17** have been indicated for allowance because the prior art fails to teach the entire combination of a system for detecting a paper delivery abnormality in a device comprising at least one timer, for monitoring the fuser temperature controller to measure a value T<sub>1</sub>, the value T<sub>1</sub> is a period that the heating element is energized; and a controller, for detecting a paper delivery abnormality based upon the feed sensor unit state, value T<sub>1</sub> and a reference value T<sub>2</sub>, the value T<sub>2</sub> is a reference period said heating element is energized during normal paper delivery.

**Claims 18-20** have been indicated for allowance because the prior art fails to teach the entire combination of a method for detecting a paper delivery abnormality in a device comprising the steps of monitoring a fuser temperature controller and measuring a value  $T_1$ , the value  $T_1$  is a period of the fuser temperature controller energizes a heating element to fix an image on the input paper; and comparing the value  $T_1$  with a reference value  $T_2$ , the reference value  $T_1$  is a reference period of the heating element is energized during normal paper delivery, and detecting a paper delivery abnormality when the normal input paper delivery is detected and the value  $T_1$  is greater than or less than the reference value  $T_2$ .

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh H. Chau whose telephone number is (571) 272-2156. The examiner can normally be reached on M - TH 9:30AM - 8:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew H. Hirshfeld can be reached on (571) 272-2168. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MHC  
April 29, 2005



**MINH CHAU  
PRIMARY EXAMINER**